Reclamation's Post 2004 Operations Options Analysis

Options Work Group

Restructuring Plan Timeline

					1999		2000		2001		2002		200
ID	0	Task Name	Duration	Start	H1	H2	H1	H2	H1	H2	H1	H2	H
1		Restrucuturing Plan	913 days	Wed 6/2/99		6/2						$\overline{}$	4
2		Element 1 (Operational Options Sele	403 days	Wed 6/2/99			 	÷					
3	✓	Develop Options	61 days	Wed 6/2/99									
4	✓	Analyze Options	263 days	Sun 11/21/99		1			1				
5	✓	Prioritize Options	1 day	Sun 10/15/00				η					
6		Recommend Option to MP Manag	12 days	Wed 10/25/00					10/25				
7		Element 2 (Procedure Development	330 days	Mon 12/18/00					VI				
8		CAISO Procedures	120 days	Mon 12/18/00				7		1			
9		Western Procedures	120 days	Mon 6/4/01							 		
10		Water Customer Schedules	90 days	Mon 11/19/01						ì			
11		F&WS Procedures	120 days	Mon 6/4/01					ì				
12		Element 3 (Interagency Coordination	390 days	Mon 6/4/01						,		\sim	ł
13		CAISO Interconnection Agreemen	90 days	Mon 6/4/01					ì				
14		Western COMA modification	81 days	Mon 11/19/01									
15		Western O&M Cost Suballocaiton	120 days	Mon 8/27/01									
16		F&WS Agreement	365 days	Mon 6/4/01									
17		Element 4 (Rate Setting Adjustments	180 days	Mon 2/11/02								V	
18		Water Rate Adjustments	180 days	Mon 2/11/02									
19		Power Rate Setting Adjustments	120 days	Mon 2/11/02									

Restructuring Plan Timeline

				1000		2000		2004		2002		2003
a	Task Name	Duration	Start	<u> </u>	H2		1		H2		H2	H1
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	Water Customer Schedules	90 days	Mon 11/19/0									
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- Increased costs are predicted due to expiration of PG&E Integration Contract and need to interface with ISO
- PG&E Contract covers all CVP loads, allows monthly accounting of energy, and PG&E to schedule CVP power plants hourly patterns.

- ISO interface will mean CVP must pay what others are currently paying.
- ISO interface will mean more information will need to be developed for the CVP and provided to ISO on a more frequent level.

- CVP Generation and Pumping loads are not hourly coincident.
- ISO requires balanced hourly schedules.
- Hourly imbalances are expected to be assessed at the market clearing price.
- Pumping must be scheduled hourly and daily.
- There are over 200 pumping plants in the CVP that must be served under a scheduled.

Post 2004 Operations Options Preliminary Analysis

- Annual impacts from hourly imbalances initially estimated from \$700k to over \$4.5 million.
- If the generation would have been rescheduled to eliminate the imbalance, the pumping costs would still range from an additional \$50k to \$1.6 million annually.

- Electric Industry Restructuring will mean more work on both the Water and Power customers, Western, and Reclamation.
- Electric Industry Restructuring will require new equipment for interface and accounting.
- It can provide an opportunity for improvement
- Increasing the value of generation can be used to offset some of the increased costs.

- Need to identify how value can be improved.
- Work with CVP Water and power customers to
 - develop improvement options.
 - Evaluate the options
 - Help in prioritizing the options

- Work Group Tasks
 - Develop Operational Options
 - Analyze Options
 - Develop Prioritization Criteria
 - Rank Options using Criteria

- Work Group Tasks
 - Develop Operational Options
 - Integration Contract (No Change)
 - Pump Following (kWh reservation for pumping)
 - Max Peaking (PU reservation retained by allocation)

CHART IS FOR OPTION EXAMPLE ONLY

Purchases for Project-Use

Option 1 Integration Contract Comparison Post 2004 Operations

Purchases for Preference Loads

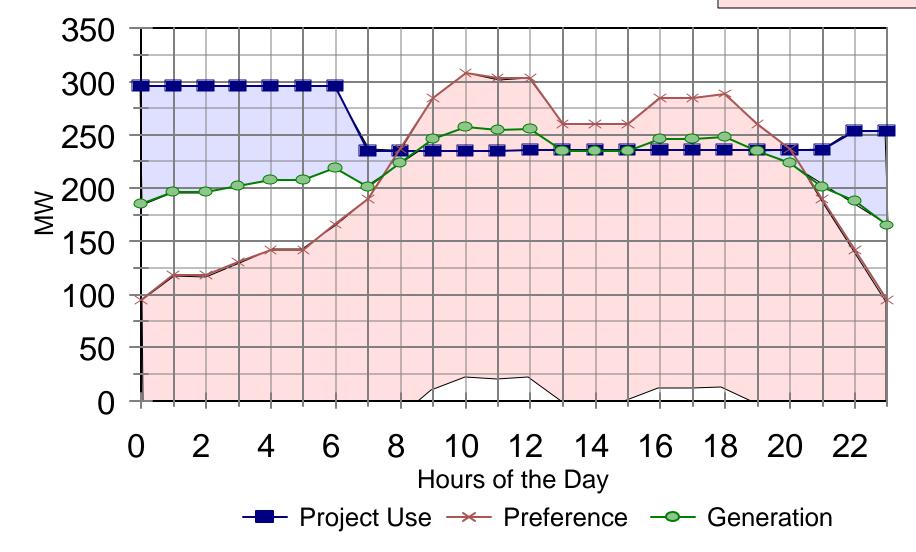


CHART IS FOR OPTION EXAMPLE ONLY

Purchases for Project-Use

Option 2 Pump Load Following Purchases for Comparison Post 2004 Operations

Preference Loads

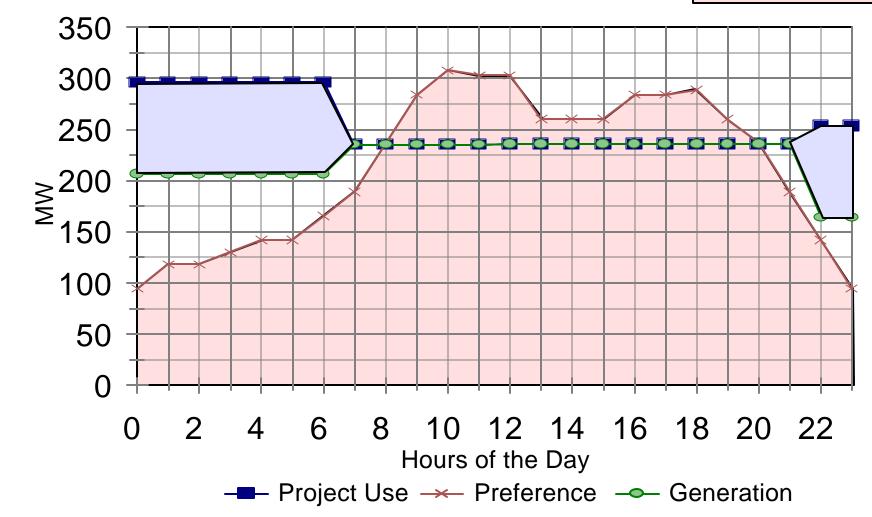


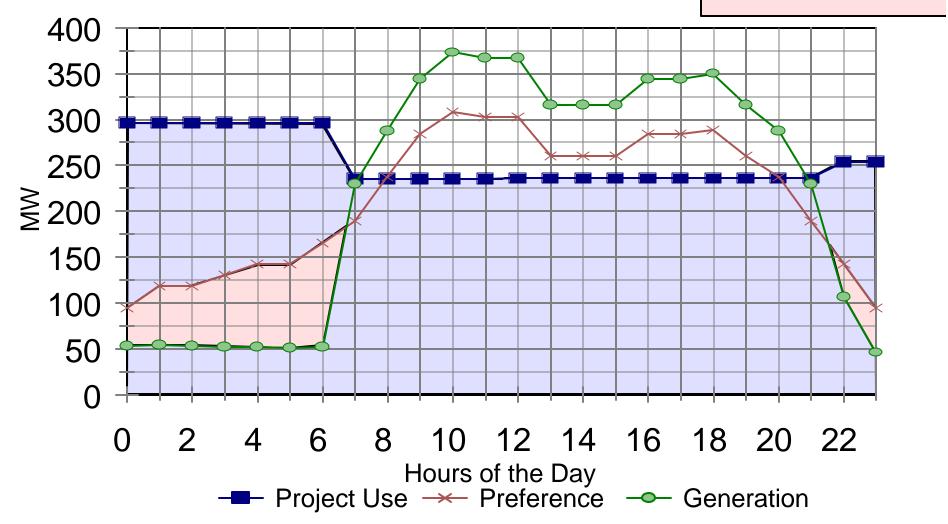
CHART IS FOR OPTION EXAMPLE ONLY

Purchases for Project-Use

Option 3 Max Peaking Generation

Comparison Post 2004 Operations Purchases for

Purchases for Preference Loads



- Work Group Tasks
 - Develop Operational Options
 - Analyze Options
 - Operational Costs
 - Implementation Costs
 - Operation Flexibility

- Work Group Tasks
 - Develop Operational Options
 - Analyze Options
 - Develop Prioritization Criteria
 - Develop Objectives
 - Develop Decision Matrix
 - Develop Weighting values

- Work Group Tasks
 - Develop Operational Options
 - Analyze Options
 - Develop Prioritization Criteria
 - Rank Options using Criteria
 - Normalize Cost components for each options
 - Apply ranking method

- Options are prioritized with a Matrix.
- Use of a Matrix allows impartial prioritization.
- Ensures objectives are met
 - Maximize Benefits.
 - Lowered Administrative Costs.
 - Maximum additional operational flexibility to meet environmental constraints.

Prioritization Matrix for Options Scenarios

Priority Matrix Category	weighing factor 1	weighing factor 2	weighing factor 3
1 Net Benefits of Resources/Loads	Option is in upper third of normalized net benefits.	Option is in middle third of normalized net benefits.	Option is in lower third of normalized net benefits.
2 Agency Additional Administrative Cost	Option is in lower third of normalized costs.	Option is in middle third of normalized costs.	Option is in Upper third of normalized costs.
3 Operational Flexibility	Option provides additional operational flexibility to meet environmental objectives.	Option provides no additional operational flexibility to meet environmental objectives.	Option reduces operational flexibility to meet environmental objectives.

Use of Matrix.

Priority number determined by multiplying the category number by weighing factor for each category and adding the results. The lowest value would have the highest preference.

- Work Group Tasks
 - Develop Operational Options
 - Analyze Options
 - Operational Costs
 - Develop Model of the CVP for Post 2004
 - Develop Market Conditions
 - "Operate" the CVP for Value

Daily Generation and Hourly Pumping Pattern Development

- Products needed for Options analysis
 - Generation: Daily generation releases shaped to hourly pattern depending upon Option.
 - Pumping: Pattern is an hourly pattern and varies with hydrology.
 - Price Curve based upon the latest market data.

Daily Generation and Hourly Pumping Pattern Development

- No computer model currently exists that creates an hourly pump pattern.
- Pattern selected should reflect expected operations.
- Primary assumption For a given amount of water pumped in a month at a facility, the hourly pumping pattern will be the same for that facility.

Daily Generation and Hourly Pumping Pattern Development

- Approach to pattern development-
 - Model the <u>monthly</u> CVP Operation for Generation and Pumping
 - Create a <u>monthly</u> pattern from the model results.
 Normalizing to yearly value.
 - Extract actual <u>monthly</u> operational data for the CVP from hourly logs.
 - Create a <u>monthly</u> pattern from the Operational data.
 - Superimpose the <u>monthly</u> patterns and select the closest match.
 - Proportion the daily generation and hourly pumping operational pattern to the <u>monthly</u> model data.

Generation and Pump Model

- Generation and Pumping pattern should reflect the same hydrological conditions.
- Hydrological conditions and environmental assumptions need to be modeled.
- Only Model that has relevant data is the Draft PEIS Preferred Alternative PROSIM run.

Generation and Pump Model Data Base Pattern

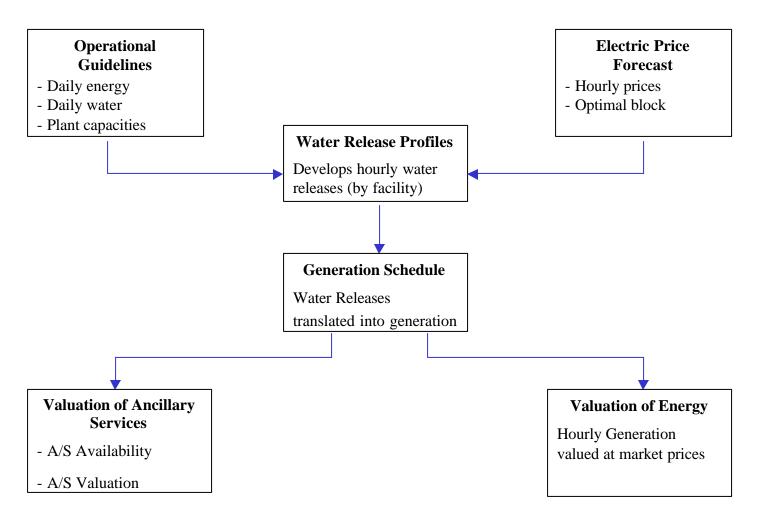
- Snap shots taken from the PROSIM run to represent a "reasonable" range of conditions.
- Range of conditions are not expected to change the results of analysis for any one Option.
- Range to represent dry, normal, and wet type of condition.

Generation and Pump Model Data Base Pattern

- Condition criteria used reflect <u>current</u> OCAP criteria which uses Sacramento River Index.
- Sacramento River Index (SRI) is the annual unimpaired inflow of the Sacramento, Feather, Yuba, and American Rivers.
- Model data was Ranked by SRI.
- Dry condition chosen as 90% exceedance.
- Wet as 10% exceedance.
- Normal as the SRI median between 90 and 10%.

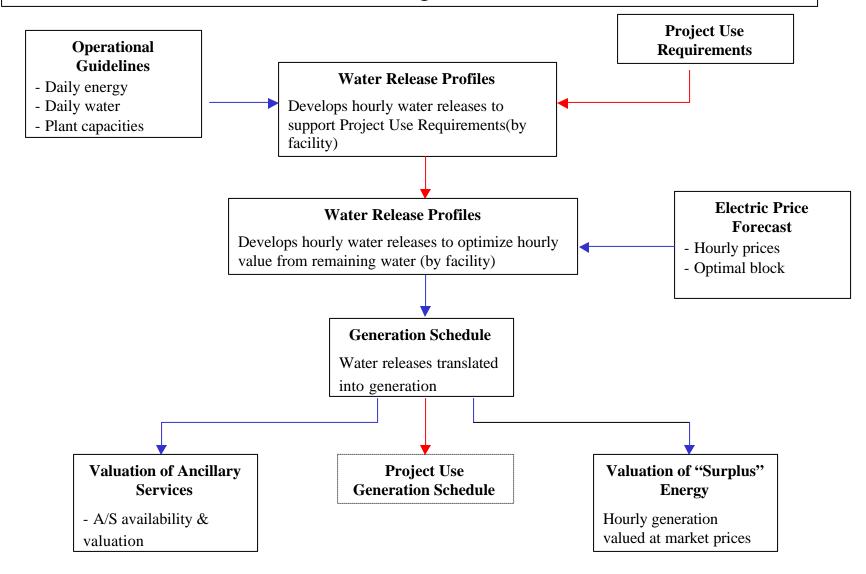
Flow Chart of Model Analysis

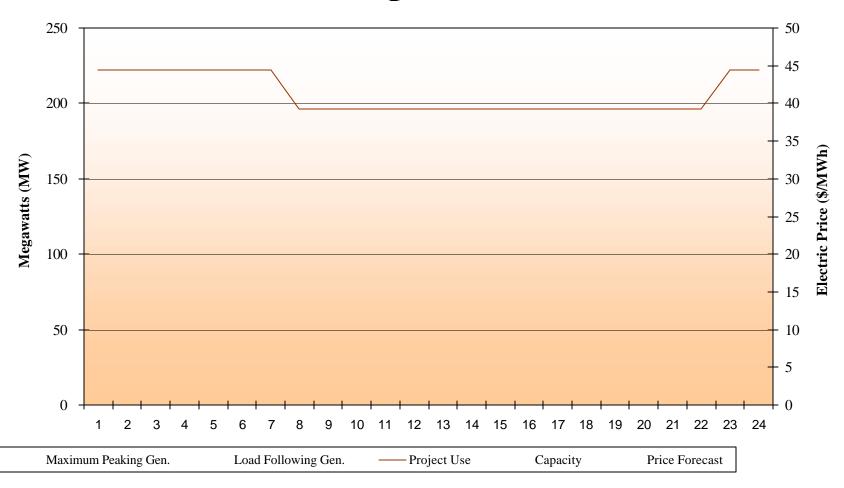
"Maximum-Peaking Alternative"

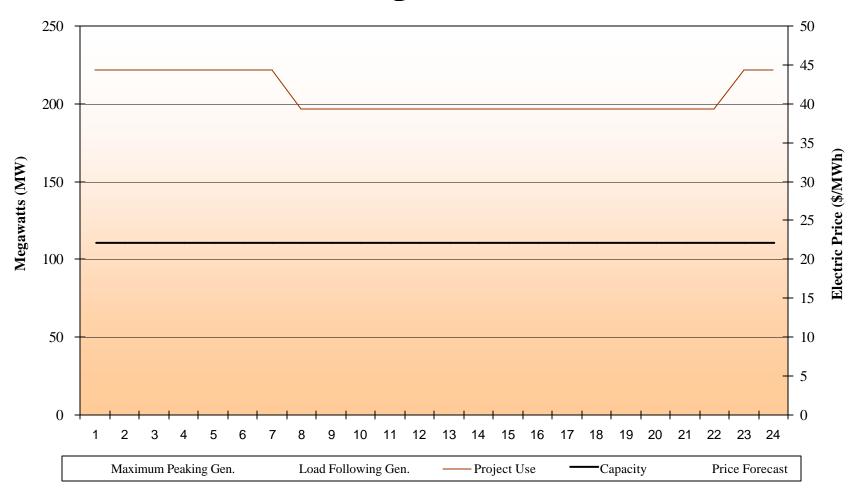


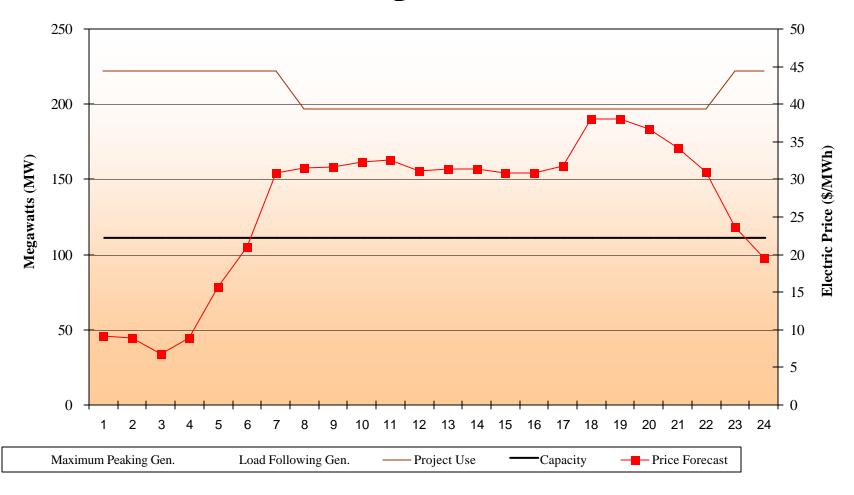
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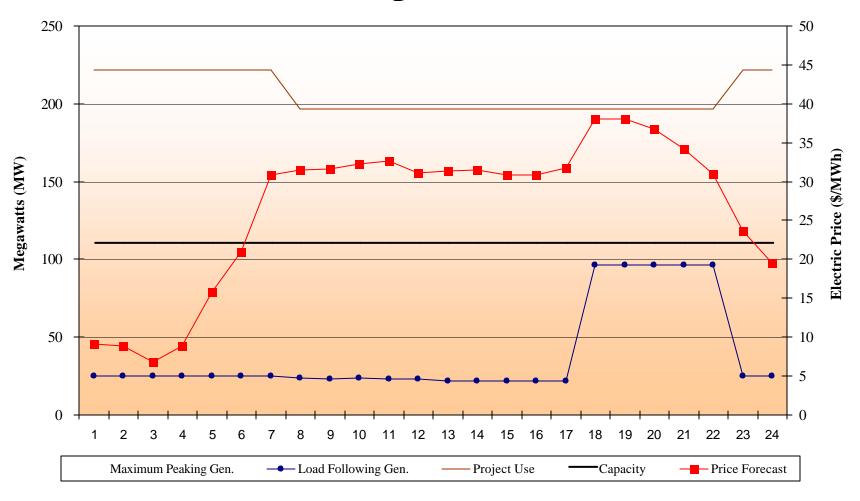
"Load-Following Alternative"

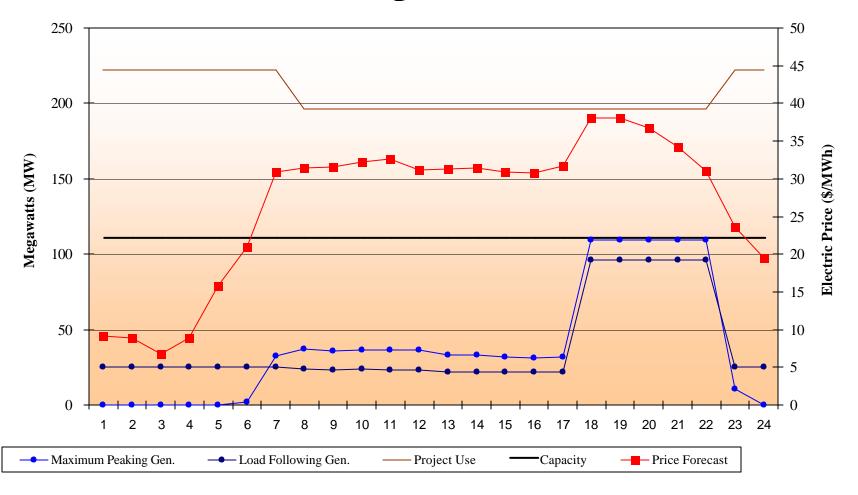






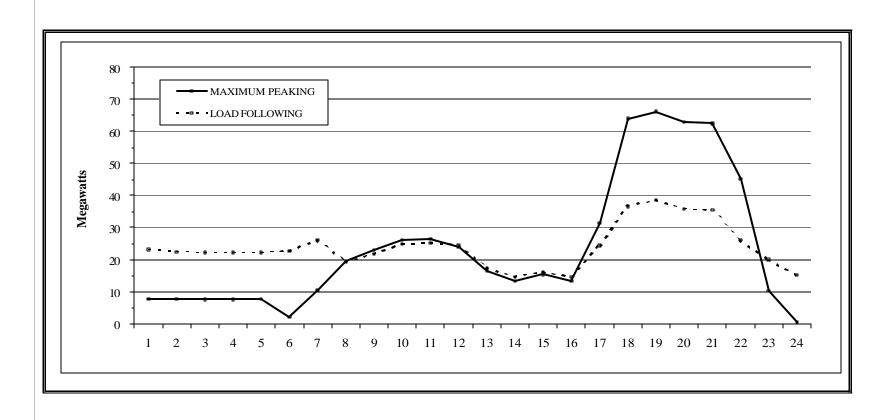






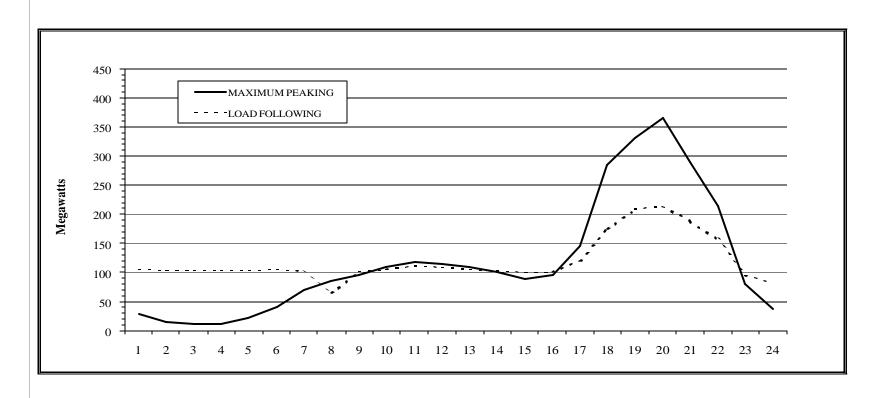
Samples of Analysis

GENERATION SCHEDULES FOR TRINITY LOAD FOLLOWING VERSUS MAXIMUM PEAKING MEDIAN-YEAR WATER CONDITIONS (JANUARY)



Samples of Analysis

GENERATION SCHEDULES FOR SHASTA LOAD FOLLOWING VERSUS MAXIMUM PEAKING MEDIAN-YEAR WATER CONDITIONS (MARCH)



Operational Analysis Summary

	Wet	Year	Med	dian	D	ry
	Max Peaking	Load Following	Max Peaking	Load Following	Max Peaking	Load Following
Generation Value	\$279,950,000	\$244,523,000	\$233,658,000	\$184,929,000	\$151,979,000	\$130,497,000
Pumping Support Cost	\$33,699,000	\$140,000	\$46,098,000	\$181,000	\$23,939,000	\$4,542,000
Net Value	\$246,251,000	\$244,383,000	\$187,561,000	\$184,747,000	\$128,040,000	\$125,955,000
difference	\$1,86	58,000	\$2,81	4,000	\$2,08	55,000

Sensitivity

SHASTA OPERATIONS LOAD FOLLOWING AND MAXIMUM PEAKING OPERATIONS SENSITIVITY ANALYSIS OF "ON-PEAK" AND "OFF-PEAK" PRICE VOLATILITY MEDIAN-YEAR WATER CONDITIONS - MARCH 2005

	NET V	ALUE		% CHANGE		
CATEGORY	Maximum Peaking	Load Following	VARIANCE (MP-LF)	IN VALUE		
Modeled	830,644	579,742	250,902			
5% Increase in "On-Peak" Prices	886,782	607,892	278,890	11%		
10% Increase in "On-Peak" Prices	942,920	636,043	306,877	22%		
15% Increase in "On-Peak" Prices	999,059	664,193	334,866	33%		
20% Increase in "On-Peak" Prices	1,055,197	692,343	362,854	45%		

Options Work Group Administrative Costs

- Western and Reclamation existing staffing level studied.
- Both agencies hardware infrastructure assessed.
- Changes to staffing and hardware determined based upon generic industry configuration
- No Third Party costs to agencies analyzed.

Administrative Cost Analysis

OPTION	NON-RECURRING COSTS	ANNUAL COSTS	NORMALIZED COSTS
Load Following with third party as Scheduling Coordinator	\$3,700	\$405,000	17.5%
Load Following with Western as Scheduling Coordinator	\$63,700	\$405,000	20.1%
Load Following with Reclamation as Scheduling Coordinator	\$373,700	\$1,957,500	100%
Maximum Peaking with third party as Scheduling Coordinator	\$3,700	\$405,000	17.5%
Maximum Peaking with Western as Scheduling Coordinator	\$60,000	\$405,000	19.9%
Maximum Peaking with Reclamation as Scheduling Coordinator	\$373,700	\$1,957,500	100%

Option Analysis Preliminary Summary

OPTION	1 Net Benefits of Resources/Loads	2 Agency Additional Administrative Cost	3 Operational Flexibility	Prioritization Factor
Load Following with third party as Scheduling Coordinator	2	1	2	10
Load Following with Western as Scheduling Coordinator	2	1	2	10
Load Following with Reclamation as Scheduling Coordinator	2	3	2	14
Maximum Peaking with third party as Scheduling Coordinator	2	1	1	7
Maximum Peaking with Western as Scheduling Coordinator	2	1	1	7
Maximum Peaking with Reclamation as Scheduling Coordinator	2	3	1	11

Restructuring Plan Timeline

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